

FIG. 1**NUCLEOTIDE SEQUENCE**

>Protease C-E (SEQ.ID.NO.:1)

CGTTCCGCCTCCCAGGATAAAACCTGGGGCGACCTGCAGGGAACCTACACA
CCCTGACCCGCATCGCCCTGGGTCTCTCGAGCCTGCTGCCTGCTCCCCCGC
CCCACCAGCCATGGTGGTTTCTGGAGCGCCCCAGCCCTGGGTGGGGGCTG
TCTCGGCACCTTCACCTCCCTGCTGCTGCTGGCGTCGACAGCCATCCTCAA
TGCGGCCAGGATAACCTGTTCCCCAGCCTGTGGGAAGCCCCAGCAGCTGAA
CCGGGTTGTGGGCGGCGAGGACAGCACTGACAGCGAGTGGCCCTGGATCGT
GAGCATCCAGAAGAATGGGACCCACCACTGCGCAGGTCTCTGCTCACCAG
CCGCTGGGTGATCACTGCTGCCCCACTGTTTCAAGGACAACCTGAACAAACC
ATACCTGTTCTCTGTGCTGCTGGGGGCTTGGCAGCTGGGGAACCTGGCTC
TCGGTCCCAGAAGGTGGGTGTTGCCTGGGTGGAGCCCCACCCTGTGTATTC
CTGGAAGGAAGGTGCCTGTGCAGACATTGCCCTGGTGCCTCTCGAGCGCTC
CATAAGTTCTCAGAGCGGGTCTGCCCATCTGCCTACCTGATGCCTCTAT
CCACCTCCCTCCAAACACCCACTGCTGGATCTCAGGCTGGGGGAGCATCCA
AGATGGAGTTCCCTTGCCCCACCCTCAGACCCTGCAGAAGCTGAAGGTTCC
TATCATCGACTCGGAAGTCTGCAGCCATCTGTACTGGCGGGGAGCAGGACA
GGGACCCATCACTGAGGACATGCTGTGTGCCGGCTACTTGGAGGGGGAGCG
GGATGCTTGTCTGGGCGACTCCGGGGGCCCCCTCATGTGCCAGGTGGACGG
CGCTGGCTGCTGGCCGGCATCATCAGCTGGGGCGAGGGCTGTGCCGAGCG
CAACAGGCCCCGGGGTCTACATCAGCCTCTCTGCGCACCGCTCCTGGGTGGA
GAAGATCGTGCAAGGGGTGCAGCTCCGCGGGGCGCGCTCAGGGGGGTGGGGC
CCTCAGGGCACCGAGCCAGGGCTCTGGGGCCGCGCGCTCCTAGGGCGC
AGCGGGACGCGGGGCTCGGATCTGAAAGGCGGCCAGATCCAGATCTGGATC
TGGATCTGCGGCGGCCTCGGGCGGTTTCCCCCGCCGTAAATAGGCTCATCT
ACCTCTACCTCTGGGGGCCCCGACGGCTGCTGCGGAAAGGAAACCCCTCC
CCGACCCGCCCCGACGGCCTCAGGCCCCGCCTCCAAGGCATCAGGCCCCGCC
CAACGGCCTCATGTCCCCGCCCCCACGACTTCCGGCCCCGCCCCGGGGCC
CAGCGCTTTTGTGTATATAAATGTTAATGATTTTTTATAGGTATTTGTAACC
CTGCCCACATATCTTATTTATTCCTCCAATTTCAATAAATTATTTATTCTCCA

AA SEQUENCE

>Protease C-E (SEQ.ID.NO.:7)

MVVS GAPPALGGGCLGTFTSLLLLASTAILNAARIPVPPACGKPPQQLNRVV
GGEDSTDSEWPWIVSIQKNGTHHCAGSLLTSRWVITA AHCFKDNLNKPYLF
SVLLGAWQLGNPGSRSQKVGVAWVEPHPVYSWKEGACADIALVRLERSIQF
SERVLPICLPDASIHLPNTHCWISGWGSIQDGVPLPHPQTLQKLKVPIID
SEVCSHLYWRGAGQGPITEDMLCAGYLEGERDACLGDSGGPLMCQVDGAWL
LAGIISWGECAERNRPGVYISLSAHRSWVEKIVQGVQLRGRAQGGGALRA
PSQGS GAAARS

FIG. 2

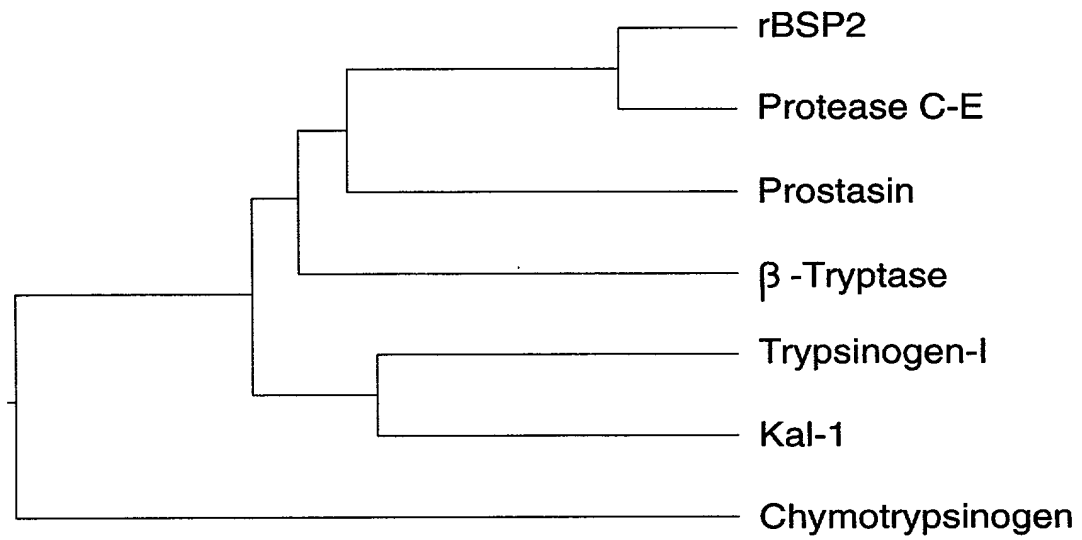


FIG. 3

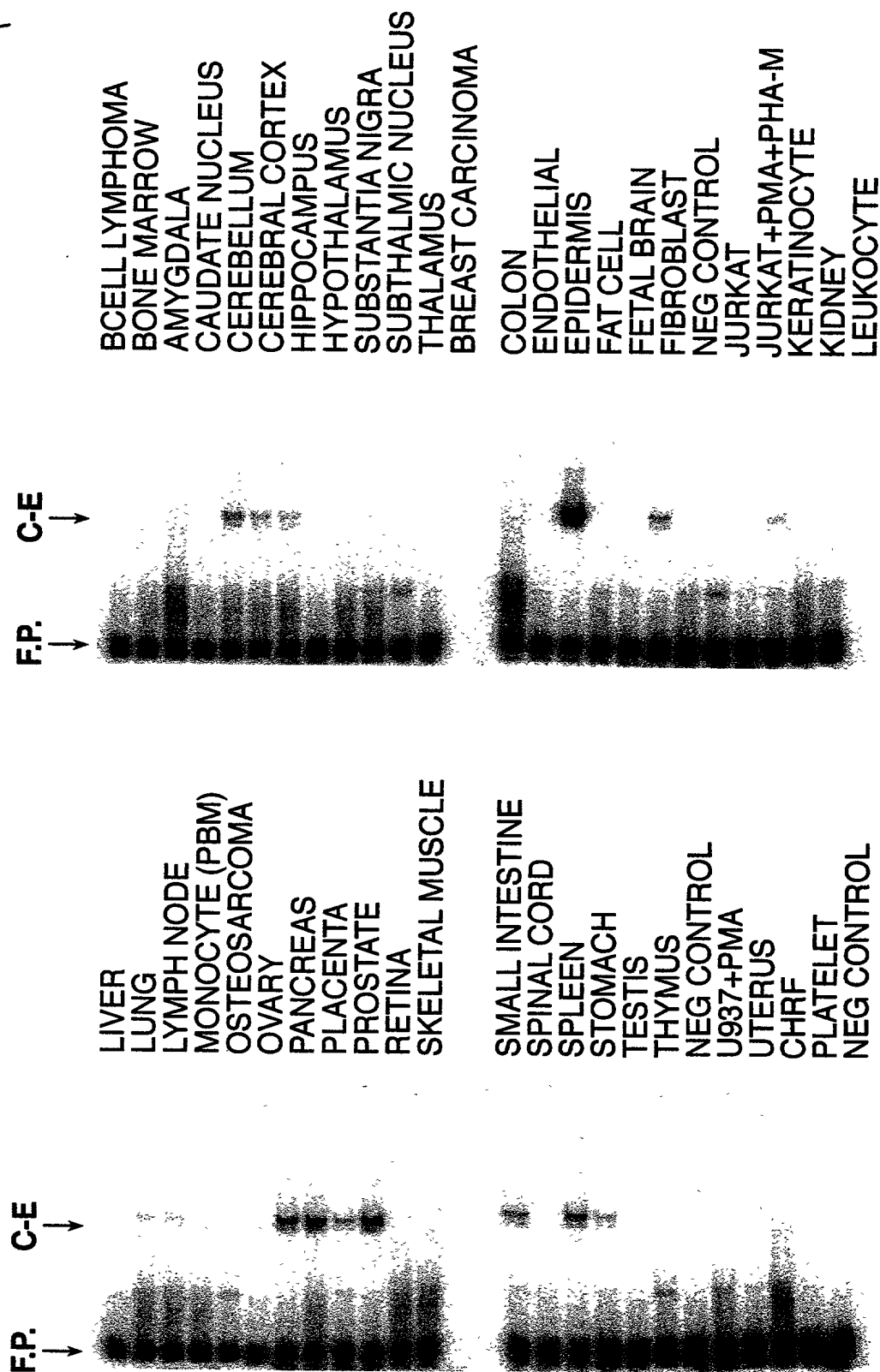


FIG. 4

CONSTRUCT NUCLEOTIDE SEQUENCE

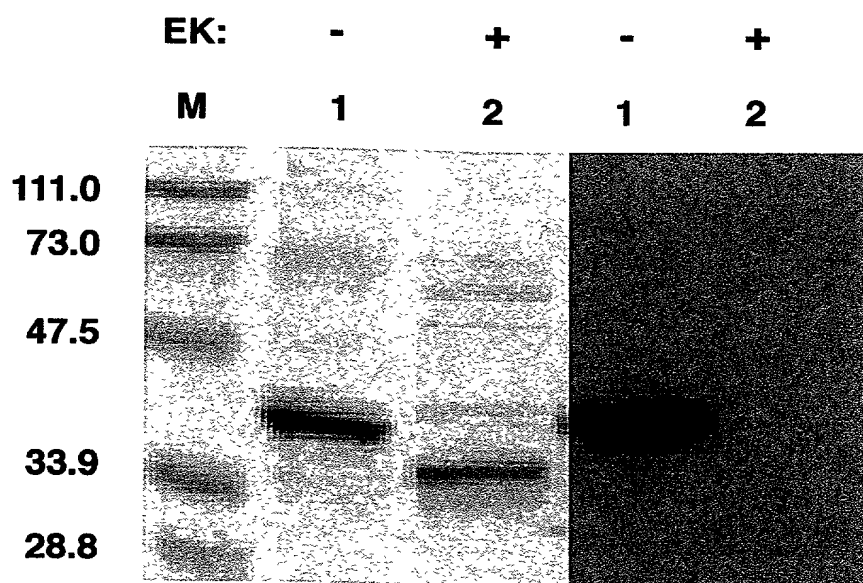
>PFEK2-C-E-HIS ERI-HCII (SEQ.ID.NO.:2)

GAATTCACCACCATGGACAGCAAAGGTTTCGTTCGCAGAAATCCCGCCTGCTC
CTGCTGCTGGTGGTGTCAAATCTACTCTTGTGCCAGGGTGTGGTCTCCGAC
TACAAGGACGACGACGACGTGGACGCGGCCGCTCTTGCTGCCCCCTTTGAT
GATGATGACAAGATCGTTGGGGGCTATGCTCTAGAGGACAGCGAGTGGCCC
TGGATCGTGAGCATCCAGAAGAATGGGACCCACCACTGCGCAGGTTCTCTG
CTCACCAGCCGCTGGGTGATCACTGCTGCCCCTGTTTCAAGGACAACCTG
AACAAACCATACTGTCTCTGTGCTGCTGGGGGCCTGGCAGCTGGGGAAC
CCTGGCTCTCGGTCCCAGAAGGTGGGTGTTGCCTGGGTGGAGCCCCACCCT
GTGTATTCTTGAAGGAAGGTGCCTGTGCAGACATTGCCCTGGTGCGTCTC
GAGCGCTCCATACAGTTCTCAGAGCGGGTCCTGCCCATCTGCCTACCTGAT
GCCTCTATCCACCTCCCTCCAAACACCCACTGCTGGATCTCAGGCTGGGGG
AGCATCCAAGATGGAGTTCCCTTGCCCCACCCTCAGACCCTGCAGAAGCTG
AAGGTTCTATCATCGACTCGGAAGTCTGCAGCCATCTGTACTGGCGGGGA
GCAGGACAGGGACCCATCACTGAGGACATGCTGTGTGCCGGCTACTTGGAG
GGGGAGCGGGATGCTTGTCTGGGCGACTCCGGGGGCCCCCTCATGTGCCAG
GTGGACGGCGCCTGGCTGCTGGCCGGCATCATCAGCTGGGGCGAGGGCTGT
GCCGAGCGCAACAGGCCCGGGGTCTACATCAGCCTCTCTGCGCACCGCTCC
TGGGTGGAGAAGATCGTGCAAGGGGTGCAGCTCCGCGGGCGCGCTCAGGGG
GGTGGGGCCCTCAGGGCACCGAGCCAGGGCTCTGGGGCCGCGCGCTCC
TCTAGACATCACCATCACCATCACTAGCGGCCGCTTCCCTTTAGTGAGGGT
TAATGCTTCGAGCAGACATGATAAGATAATTGATGAGTTTGGACAAACCA
CAACTAGAATGCAGTGAAAAAATGCTTTATTTGTGAAATTTGTGATGCTA
TTGCTTTATTTGTAACCATTATAAGCTGCAATAAACAAGTTGAC

FUSION PROTEIN

>PFEK-C-E-HIS (SEQ.ID.NO.:8)

MDSKGSSQKSRLLLLLLVSNLLLCQGVVSDYKDDDDVDAAALAAPFDDDDK
IVGGYALEDSEWPWIVSIQKNGTHHCAGSLLTSRWVITAAHCFKDNLNKPY
LFSVLLGAWQLGNPGSRSQKVGVAWVEPHPVYSWKEGACADIALVRLERSI
QFSERVLPICLPDASIHLPNTHCWISGWGSIQDGVPLPHPQTLQKLKVP
IDSEVCSHLYWRGAGQGPITEDMLCAGYLEGERDACLGDSGGPLMCQVDGA
WLLAGIISWGECAERNRPGVYISLSAHRSWVEKIVQGVQLRGRAQGGGAL
RAPSQGSAAARSSRHHHHHH

FIG. 5

Protease: PFEK-Protease C-E-HIS